

INTERNET ARCHIVE  
Wayback Machine

15 captures  
12 Dez 07 - 12 Dez 12

http://www.bettyhacks.com/wiki/index.php/Betty\_Hardware

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# Betty-Hardware

## From Bettyhacks.com - Hack BettyTV-Remote

(Redirected from Betty Hardware)

## Bauteile

### [LCD] (auf Vorderseite)

160 x 128 Pixel

4 Graustufen LCD

Controller: SSD1854

Forum (/web/20081204053123/http://bettyhacks.com/forum

/index.php?topic=51.msg314#msg314) Press-Release (/web/20081204053123/http:

//www.solomon-systech.com/news/press300301.htm) Datenblatt

(/web/20081204053123/http://pdf1.alldatasheet.net/datasheet-pdf/view/103925

/ETC/SSD1854.html)

20 pins, flex connector probably glued with anisotropic adhesive - can be pulled off gently while leaving wires on flex intact.

Foto 1 (/web/20081204053123/http://bettyhacks.com/wiki/index.php/Image:Betty-

tv\_lcd1.jpg) 2 (/web/20081204053123/http://bettyhacks.com/wiki/index.php

/Image:Betty-tv\_lcd2.jpg)

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### [A] IR senden (LPC2220 Pin: 4)

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### [B] IR an/aus (LPC2220 Pin: 84)

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### [C] IR empfang (LPC2220 Pin: 32)

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### [1] LPC2220 - 32bit arm7tdmi-s cpu

- 64kbyte sram
- serial bootloader using uart0
- flashless
- external memory interface
  - banks: 4x16 MByte
  - 8/16/32 data width
  - memory mapped: ram, rom, some i/o
- PLL-Input 10MHz Crystal

Datasheet (/web/20081204053123/http://www.keil.com/dd/docs/datashts/philips

/lpc2210\_2220.pdf) Usermanual (/web/20081204053123/http://www.nxp.com

/acrobat\_download/usermanuals/UM10114\_1.pdf)

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### [2] en29lv800 - flash speicher

- 8mbit: 1024k \* 8bit / 512k \* 16bit
- sector protection/unprotection
- the first (from cpu counted) is the word-mode(16-bit) CS0-BootFlash
- the second is word-mode(16-bit) CS2-Flash

Datasheet EN29LV800B (/web/20081204053123/http://www.eonsdi.com/upfile

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- 8/16Bit Security Controller
- CMOS Technology
- 68kbyte ROM, 2304 Byte RAM, 2Kbyte EEPROM
- Dual Key Triple DES

[4] Fill me!

[5] Fill me!

[6] Fill me!

[7] PCF8563

- RTC-Chip with I2C-Connect
- I2C-bus slave address: read A3h and write A2h

Datasheet (/web/20081204053123/http://www.standardics.nxp.com/products/pcf/datasheet/pcf8563.pdf) Appnote (/web/20081204053123/http://www.standardics.nxp.com/support/documents/i2c/pdf/an.real.time.clocks.pdf)

[8]

- LM4876M
- 1.1W Audio Power Amplifier with Logic Low Shutdown

Datasheet (/web/20081204053123/http://cache.national.com/ds/LM/LM4876.pdf)  
Overview (/web/20081204053123/http://www.national.com/mpf/LM/LM4876.html)

[9]

- LM393 Dual Komparator - digitalisiert Signal von der IR-LED zum Empfang.

Overview (/web/20081204053123/http://www.national.com/mpf/LM/LM393.html)

[10] Fill me!

[11] 27MHz Quarz

- crystal for cc1100

[12] cc1100 - rf transceiver

- 315/433/868/915 MHz
- 2x64byte rx, tx fifo
- spi interface

Datasheet (/web/20081204053123/http://focus.ti.com/lit/ds/symlink/cc1100.pdf)  
Overview (/web/20081204053123/http://focus.ti.com/docs/prod/folders/print/cc1100.html)



Alle Chips sind rot markiert und nebenan beschrieben

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**Wayback Machine**

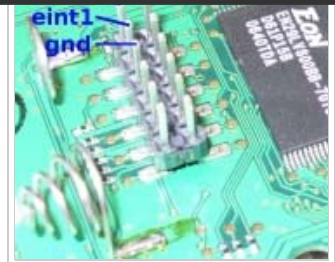
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### Service-Stecker (Batteriefach)

TMS	1	2	TDO
TDI	3	4	RTCK
nTRST	5	6	TCK
V3,3V	7	8	GND
nReset	9	10	Bootloader EN, Aktiv = LOW (EINT1)
RX	11	12	TX



Service-Stecker

Besseres Bild: <http://www.grautier.com/grautier/uploads/Elektronik/Betty/RIMG0001.JPG>

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